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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/653,928		09/04/2003	Yoshionori Hotta	Q77295	3645
23373	7590	01/19/2005		EXAMINER	
SUGHRU		, PLLC NIA AVENUE, N.W.	GILLIAM, BARBARA LEE		
SUITE 800		MITTIVE TOE, IV.		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20037			•	1752	
				DATE MAILED: 01/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
Office Antinu Commence	10/653,928	HOTTA, YOSHIONORI						
Office Action Summary	Examiner	Art Unit						
	Barbara L. Gilliam	1752	<u> </u>					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ety filed s will be considered timely the mailing date of this co O (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on 04 Se	eptember 2003.							
	action is non-final.							
3) Since this application is in condition for allowan	· <u> </u>							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.	•							
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.							
) ☐ Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-3</u> is/are rejected.	☑ Claim(s) <u>1-3</u> is/are rejected.							
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or	election requirement.							
Application Papers								
9)☐ The specification is objected to by the Examine	ſ.							
10)⊠ The drawing(s) filed on <u>04 September 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.								
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.					
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☒ None of:								
 Certified copies of the priority documents 	s have been received.							
2. Certified copies of the priority documents	have been received in Application	on No						
3. Copies of the certified copies of the prior	_	d in this National :	Stage					
application from the International Bureau								
* See the attached detailed Office action for a list of	of the certified copies not receive	d.						
Attachment(s)								
1) Notice of References Cited (PTO-892)	4) Interview Summary							
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da 5) Notice of Informal Pa		-152)					
Paper No(s)/Mail Date <u>9/4/2003</u> .	6) Other:	•	-					

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DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on September 6, 2002. It is noted, however, that applicant has not filed a certified copy of the 2002-261402 application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Tomita et al. (EP 1 219 464 A2).
- a. The aluminum support of the lithographic printing plate precursor taught by Tomita et al. anticipates the presently claimed support and method for the production of the support. Specifically, the aluminum support has formed thereon an anodic oxide film, having a pore diameter of 8 to 500 nm, preferably from 10 to 150 nm ([0270]), and a particle layer comprising particles having an average particle diameter of from 8 to 800 nm (claim 8). The particle layer is formed by electrolytic treatment of the aluminum support with an electrolyte containing hydrophilic particles having an average particle diameter of from 8 to 800 nm (claim 11; [0274]-[0276]). As the hydrophilic particles it is preferred to use alone or in combination of two or more Al₂O₃,

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TiO₂, SiO₂ and ZrO₂ ([0277]). The particle layer comprising the hydrophilic particles meets the present limitations for the inorganic layer comprising the inorganic particles. According to Tomita et al, the mouths of the micro pores on the anodic oxide film can be easily sealed with leaving void inside ([0278]). The aluminum support provided with the particle layer is preferably subjected to hydrophilization treatment such as with an alkali metal silicate ([0279]-[0281]). This hydrophilization treatment meets the present limitations for the sealing treatment. See also Examples of II-1 to II-16. It is the Examiner's position the ratio of pore diameter of the particle layer to pore diameter of the anodic oxide film is not less than 1.5 as required in the present application. Additionally it is the Examiner's position ratio of silicon concentration of the particle layer to the anodic oxide film is not less than 2.

- 4. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Hotta et al. (EP 1 247 644 A2).
- a. The support of the lithographic printing plate precursor taught by Hotta et al. anticipates the presently claimed support and method for the production of said support. Specifically the support of Hotta et al. is preferably an aluminum support ([0038]) that is subjected to a roughening treatment ([0057]-[0084]) and other surface treatments ([0088]-[0105]) to form a hydrophilic anodic oxide film ([0106]-[0139]). The pores of the anodic oxide film are preferably sealed using particles having a mean particle size of 8-800 nm, preferably 10-500 nm, and more preferably 10-150 nm ([0144]). According to Hotta et al., within the range of mean particle size, there is little fear of the particles entering into the micro pores on the hydrophilic film ([0144]). This

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layer of particles meets the present limitations for the inorganic particle layer. As the hydrophilic particles, single or a combination of Al₂O₃, TiO₂, SiO₂ and ZrO₂ is/are preferably used. A silane coupling agent having unsaturated group may be coated for the pore-sealing treatment ([0151]) which meets the present limitations for the sealing treatment. It is the Examiner's position the ratio of pore diameter of the particle layer to pore diameter of the anodic oxide film is not less than 1.5 as required in the present application. Additionally it is the Examiner's position ratio of silicon concentration of the particle layer to the anodic oxide film is not less than 2.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. In US 2003/0148207 A1 & EP 1 279 520 A1, Maemoto et al. teach a lithographic printing plate precursor.
 - b. US 2003/0031860 A1 is in the same patent family as EP 1 247 644 A2.
 - c. US 2002/0182538 A1 is in the same patent family as EP 1 219 464 A2.
- d. In US 6,468,717 B2, Kita et al. teach a heat-sensitive lithographic printing plate precursor comprising an aluminum support with an anodic oxide film which has been subjected to sealing treatment (abstract).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barbara L. Gilliam whose telephone number is 571-272-

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1330. The examiner can normally be reached on Monday through Thursday, 8:00 AM -

5:30 PM.

a. If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone

number for the organization where this application or proceeding is assigned is 703-

872-9306.

b. Information regarding the status of an application may be obtained from

the Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Soubara L. Crillian

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Barbara L. Gilliam Primary Examiner Art Unit 1752

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December 7, 2004